

II. CLAIM AMENDMENTS

1. (Original) An air breathing gas turbine engine comprising:

a combustion chamber section;

a turbine section surrounding the combustion chamber section so that the combustion chamber section is nested at least in part within the turbine section, a rotor portion of the turbine section forming at least part of the combustion chamber section;

a compressor section surrounding the turbine section; and

a starter cartridge located in the combustion chamber section;

wherein the compressor section has two or more spools, capable of rotation independent of one another.

2. (Original) An air breathing gas turbine engine comprising:

a casing;

a combustion chamber section located in the casing;

a turbine section surrounding the combustion chamber section so that the combustion chamber section is nested at least in part within the turbine section,;

a compressor section surrounding the turbine section, the compressor section having two or more spools, capable of rotation independent of one another; and

a starter cartridge mounted to the casing so that when ignited, the starter cartridge exhausts gas within the combustion chamber section.

3. (Original) The engine according to Claim 2, wherein a rotor portion of the turbine section forms at least part of the combustion chamber section.

4. (Original) The engine according to Claim 2, wherein the starter cartridge is a solid fuel gas generator.

5. (Original) The engine according to Claim 2, wherein exhaust gas from the starter cartridge pre-warms the combustion chamber section.

6. (Original) The engine according to Claim 2, wherein the starter cartridge is threaded into an aperture of the casing.

7. (Original) An air breathing gas turbine engine comprising:

a combustion chamber section;

a turbine section surrounding the combustion chamber section so that at least part of the combustion chamber section is nested within the turbine section;

a compressor section surrounding the turbine section so that at least part of the turbine section is nested within the compressor section; and

a starter cartridge connected to the combustion chamber section for feeding gases into the combustion chamber section,

wherein the starter cartridge has a base shaped to define a toroidal region of the combustion chamber section.

8. (Original) The engine according to Claim 7, wherein compressor blades of a second compressor stage of the compressor section and turbine blades of a second turbine stage of the turbine section are mounted on a second rotor of the turbine engine, a second

rotor portion having at least part of the turbine second stage thereon forming at least part of the combustion chamber section.

9. (Original) The engine according to Claim 8, wherein the toroidal region is a recirculation region of the combustion chamber section.

10. (Currently Amended) An air breathing gas turbine engine comprising:

an outer casing;

a first rotor located in the outer casing; and

a second rotor located in the outer casing, the first rotor and second rotor each being independently rotatable;

wherein the first rotor has a first compression portion, [[and]] a first turbine portion and a combustion chamber portion, the first compression portion substantially surrounding the turbine portion of the first rotor and the combustion chamber portion being nested at least in part within the turbine portion of the first rotor, and wherein the first rotor has an exo-skeletal arrangement with an outer support ring retaining blades of at least one of the first compression portion or the first turbine portion.

11. (Original) The engine according to Claim 10, wherein the first rotor and second rotor define a compressor section of the turbine engine, a turbine section of the turbine engine, and a combustion chamber section of the turbine engine, and wherein the combustion chamber section is surrounded by the turbine section, and the turbine section is surrounded by the compressor section.

12. (Previously Presented) The engine according to Claim 11, wherein the second rotor has a second compression portion and a second turbine portion, and wherein the second rotor has another exo-skeletal arrangement with a second outer support ring retaining blades of at least one of the second compression portion or the second turbine portion.

13. (Original) The engine according to Claim 10, wherein the first rotor has another outer support ring retaining at least part of the blades of the first turbine portion.

14. (Original) The engine according to Claim 10, wherein the outer support ring is fiber reinforced.

15. (Original) The engine according to Claim 11, wherein the first rotor has a fuel feed surface disposed so that when the first rotor is turned, fuel is centrifuged by the first rotor to be injected into an air flow path of the engine.

16. (Original) The engine according to Claim 10, wherein the blades of the first turbine portion have a free inner edge.

Claims 17-26 (Cancelled).

27. (Previously Presented) The engine according to Claim 10, wherein the outer support ring is reinforced by fibers circumferentially wound as filaments.